

COLLEGE OF TECHNOLOGY

Bachelor of Science, Electrical Power Engineering Technology

Four-Year Academic Map 2020-2021

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total	
	ELET 1400	Circuit Theory I & Lab	4	ELET 1401	Circuit Theory II & Lab	4		
	MATH 1431 (MATH 2413)	Calculus I	4	MATH 1432 (MATH 2414)	Calculus II	4		
	Core Course	Communication	3	Core Course	Communication	3		
	PHYS 1301/1101	Intro to General Physics I & lab	4	PHYS 1302/1102	Intro to General Physics II & lab	4		
	Semester Hours			15	Semester Hours			15

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total	
	ELET 2301/2101	Poly-Phase Circuits & Transformers/Lab	4	ELET 2305/2105	Semiconductor Dev & Circuits /Lab	4		
	ELET 3307/3107	Electrical Machines & Lab	4	ELET 2303/2103	Digital Systems & Lab	4		
	MATH 3321	Engineering Mathematics	3	ELET 2300	Introduction to C++ Programming	3		
	Core Course	American History	3	Core Course	American History	3		
	Core Course	Language, Philosophy & Culture	3	Core Course	Creative Arts	3		
Semester Hours			17	Semester Hours			17	34

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total	
	ELET 3301	Linear Systems Analysis	3	ELET 4303/4103	Power Distribution & Transportation/Lab	4		
	ELET 3405	Microprocessor Architecture	4	ELET 3312/3112	PLCs & Motor Control/Lab	4		
	TLIM 3363	Technical Communication	3	TLIM 3340	Org Leadership & Supervision	3		
	MECT 1365	Elements of Materials & Processes	3	MECT 3341	Computer Aided Drafting	3		
	Core Course	Social & Behavioral Sciences	3	ELET Elective	ELET 4304, 4311	3		
Semester Hours			16	Semester Hours			17	33

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total	
	ELET 4317	Elect. Systems Safety & Protect	3	ELET 4326/4126	Power Converter Circuits & Lab	4		
	ELET 4305	Senior Design in Electrical Power Engineering Technology	3	ELET 4105	Senior Design in Electrical Power Engineering Technology Lab	1		
	ELET Elective	ELET 4304, 4310	3	ELET 4319	Elect. Power Sys & Industry Prac	3		
	Core Course	Government	3	Core Course	Government	3		
	Free Elective		3	MECT 4188	Ethics in Engineering	1		
Semester Hours			15	Semester Hours			12	27
							124	

(Texas Common Course Number) Courses in Bold are important prerequisites and should be taken as early as students are able. Students should meet with their academic advisor to formulate their own plan.